

TRANSLATION

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 2003P01871WO	FOR FURTHER ACTION		See Form PCT/IPEA/416
International application No. PCT/EP2004/053348	International filing date (<i>day/month/year</i>) 08.12.2004	Priority date (<i>day/month/year</i>) 09.12.2003	
International Patent Classification (IPC) or national classification and IPC H02P6/16, H02K29/06			
Applicant BSH BOSCH UND SIEMENS HAUSGERÄTE GMBH			

<p>1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of 6 sheets, including this cover sheet.</p> <p>3. This report is also accompanied by ANNEXES, comprising:</p> <p>a. <input checked="" type="checkbox"/> (<i>sent to the applicant and to the International Bureau</i>) a total of 3 sheets, as follows:</p> <p><input type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).</p> <p><input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.</p> <p>b. <input type="checkbox"/> (<i>sent to the International Bureau only</i>) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).</p>

<p>4. This report contains indications relating to the following items:</p> <p><input checked="" type="checkbox"/> Box No. I Basis of the report</p> <p><input type="checkbox"/> Box No. II Priority</p> <p><input type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</p> <p><input type="checkbox"/> Box No. IV Lack of unity of invention</p> <p><input checked="" type="checkbox"/> Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</p> <p><input type="checkbox"/> Box No. VI Certain documents cited</p> <p><input checked="" type="checkbox"/> Box No. VII Certain defects in the international application</p> <p><input checked="" type="checkbox"/> Box No. VIII Certain observations on the international application</p>

Date of submission of the demand	Date of completion of this report
Name and mailing address of the IPEA/EP	Authorized officer
Facsimile No.	Telephone No.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/EP2004/053348

Box No. I Basis of the report

1. With regard to the **language**, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

This report is based on translations from the original language into the following language _____, which is the language of a translation furnished for the purposes of:

 - international search (Rule 12.3 and 23.1(b))
 - publication of the international application (Rule 12.4)
 - international preliminary examination (Rule 55.2 and/or 55.3)
2. With regard to the **elements** of the international application, this report is based on (*replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report*):

the international application as originally filed/furnished
 the description:
 pages 1-7 _____ as originally filed/furnished
 pages* _____ received by this Authority on _____
 pages* _____ received by this Authority on _____
 the claims:
 nos. 11-14 _____ as originally filed/furnished
 nos.* _____ as amended (together with any statement) under Article 19
06.10.2005 with letter
 nos.* 1-10 _____ received by this Authority on of 06.10.2005
 nos.* _____ received by this Authority on _____
 the drawings:
 sheets 1/3-3/3 _____ as originally filed/furnished
 sheets* _____ received by this Authority on _____
 sheets* _____ received by this Authority on _____
 a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.
3. The amendments have resulted in the cancellation of:

the description, pages _____
 the claims, nos. 11-14 _____
 the drawings, sheets/figs _____
 the sequence listing (*specify*): _____
 any table(s) related to sequence listing (*specify*): _____
4. This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

the description, pages _____
 the claims, nos. _____
 the drawings, sheets/figs _____
 the sequence listing (*specify*): _____
 any table(s) related to sequence listing (*specify*): _____

* If item 4 applies, some or all of those sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

Box No. V	International application No. PCT/EP2004/053348
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Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
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1. Statement

Novelty (N)	Claims 1–10	YES
	Claims _____	NO
Inventive step (IS)	Claims 1–10	YES
	Claims _____	NO
Industrial applicability (IA)	Claims 1–10	YES
	Claims _____	NO

2. Citations and explanations (Rule 70.7)

Reference is made to the following documents:

D1: EP-A-0 802 622 (MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD) 22 October 1997 (1997-10-22)
 D2: US-A-4 631 456 (DRESCHER ET AL)
 23 December 1986 (1986-12-23).

Document D1 is considered to be the prior art closest to the subject matter of claim 1. Said document discloses a method for determining the position of a rotor in an electric motor, the method according to claim 1 differing in particular therefrom in that the derivation of the time preset as the period of the oscillator (5) involves one step of the means over, in each case, n intervals determined for successive passages through the reference position.

The problem addressed by the present invention can consequently be regarded as that of achieving increased precision in determining the rotor position.

The solution to the above problem, as proposed in claim 1 of the present application, involves an inventive step (PCT Article 33(3)). The reasons are as follows:

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITYInternational application No.
PCT/EP2004/053348**Box No. V** **Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

The solution according to claim 1 is not known from the available prior art nor is it rendered obvious thereby.

The same applies in a similar manner in respect of device claim 8.

Claims 2-7 and 9 and 10 are dependent on claim 1 and, in consequence, likewise satisfy the requirements of the PCT in respect of novelty and inventive step.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITYInternational application No.
PCT/EP2004/053348**Box No. VII Certain defects in the international application**

The following defects in the form or contents of the international application have been noted:

Pursuant to PCT Rule 5.1(a)(ii), the description should have cited documents D1 and D2 and briefly outlined the relevant prior art contained therein.

A number of connecting lines have been omitted from figures 1 to 4.

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Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

Pursuant to PCT Article 6 (clarity), claim 1 should be worded as follows:

"the derivation of the time preset as the period of the oscillator (5) involves one step of the means over, in each case, n intervals determined for successive passages through the reference position".

Claim 10 appears to lack clarity (PCT Article 6) since the device according to said claim appears to be inconsistent with the mean-value circuit according to claim 8.